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# FOREIGN TECHNOLOGY DIVISION



SOLAR CELLS



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# EDITED TRANSLATION

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SOLAR CELLS

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## SOLAR CELLS

Solar cells--photoelectric generators--are devices in which the energy of solar radiation is converted into electrical energy. The most diffuse and the only one suited for industry is the silicon cell. The application of semiconductor material has allowed an output amounting to 13.5 percent to be achieved. These cells are used mainly in astronautical technology.

The best properties are possessed by generators with structures using GaAs (gallium-arsenic) material. Their output amounts to 17.5 percent. In this respect, gallium-arsenic cells will be better suited for solar powerplants than silicon, which cannot operate at temperatures exceeding 150°C.